F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
573	27TS-2	KANE	59	27
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		1		1		5		5	7		7		9		9		9		13				13		15		15	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	2	3	4	5	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1B	2	1D	3	1F	4 OR 5	1H	2,4 OR 5	3	2	1M	5,4 OR 5	1P	2	1R	3	1T	4 OR 5	1V	1W	1X	2,3 OR 4	5	1AA	2,3 OR 5	4					◊
U.S. ROUTE 30 NEAR RIGHT SIGNAL, FAR RIGHT AND MID MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	Y	R	Y	R	R	R	R	R	R	R	R	R	G	R	R	R	◊
U.S. ROUTE 30 END MAST ARM AND FAR LEFT SIGNALS	E/B	→G	→G	→Y	→R	→Y	→R	→R	→R	→R	→G	→Y	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→G	→R	→R	→R	◊
U.S. ROUTE 30 NEAR RIGHT SIGNAL, FAR RIGHT AND MID MAST ARM SIGNALS	W/B	R	R	R	R	R	R	Y	R	G	R	R	R	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	G	R	R	◊
U.S. ROUTE 30 END MAST ARM AND FAR LEFT SIGNALS	W/B	→Y	→R	→G	→G	→Y	→R	→Y	→R	→G	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→R	→G	→R	→R	◊
DUGAN ROAD (SOUTH OF TRACKS) ALL SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	G	R	R	R	R	R	R	G	◊
DUGAN ROAD (NORTH OF TRACKS) FAR RIGHT MAST ARM SIGNAL	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	R	R	R	R	R	R	C	◊
DUGAN ROAD (NORTH OF TRACKS) END MAST ARM AND FAR LEFT SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	→G	→G	Y	R	→G	R	R	R	R	R	R	→G	◊
DUGAN ROAD FAR RIGHT MAST ARM SIGNAL	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	R	R	G	R	◊
DUGAN ROAD END MAST ARM AND FAR LEFT SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	→G	R	R	G →G	R	◊

◊ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3, 4 OR 5 IS TERMINATED.

EXHIBIT 6
SHEET 4 OF 8

REVISIONS	
NAME	DATE

CHRISTOPHER B. BURKE ENGINEERING LTD.
9575 West Higgins Road, Suite 600
Rosemont, Illinois 60018
(847) 823-0500

ILLINOIS DEPARTMENT OF TRANSPORTATION

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

U.S. RTE. 30 AT DUGAN ROAD

SCALE N.T.S. DRAWN BY FN
DATE 12-01-2000 CHECKED BY CMZ

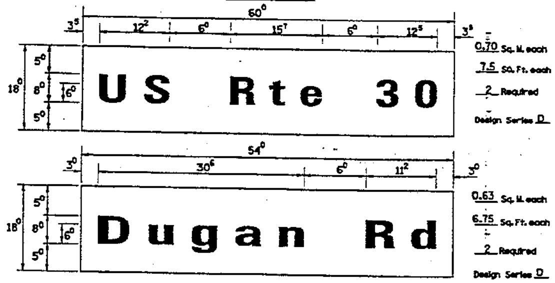
12/01/00

N:\TRAFFIC\00-50\US30\Permitons\SEQ_Us30dugan.dgn

EXHIBIT 6
SHEET 4 OF 8

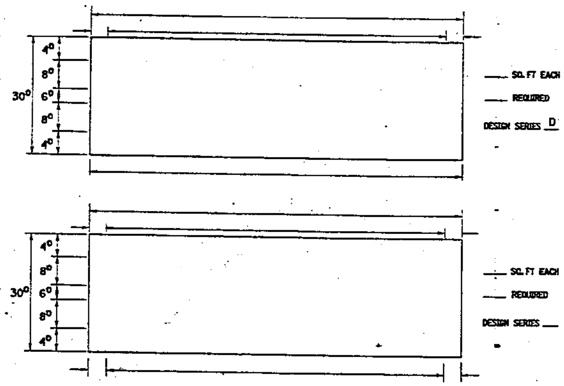
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
573	27TS-2	KANE	59	28

PANEL DESIGN TYPE 1

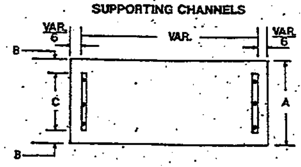


NOTE: SIGN DIMENSIONS ARE IN ENGLISH UNITS.

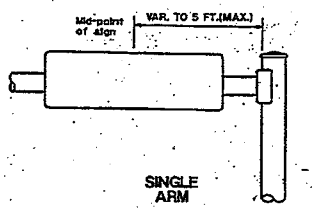
PANEL SIGN DESIGN TYPE 2



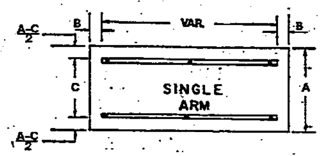
SUPPORTING CHANNELS



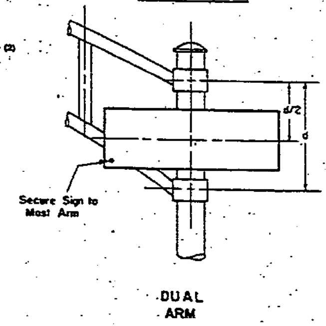
A	B	C
18"	2"	14"



SUPPORTING CHANNELS



A	B	C
18"	2"	12"
30"	2"	22"



SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5.

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 834001, 834006 AND 834011, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 6'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6'-0".
4. ALL BORDERS SHALL BE 3/4" WIDE AND CORNER RADIUS SHALL BE 2-1/4".
5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS. LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:
   - A.K.T. CORPORATION, SCHAUMBURG, IL
   - AMERICAN FABRICATION CO., CHICAGO HEIGHTS, IL
   - TUCKER COMPANY, INC., WAUWATOSA, WI
   - WESTERN TRAFFIC CONTROL INC., CICERO, IL

PARTS LISTING:

SIGN CHANNEL	PART #HPM053 (MED. CHANNEL)
SIGN SCREWS	1/4" X 14 X 1" H.W.H. #3 SELF TAPPING WITH NEOPREAM WASHER
BRACKETS	PART #HPM034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

EXAMPLE, 2^3 DENOTES $2\frac{3}{8}$"

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

FIRST LETTER	SECOND LETTER: a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1^2	1^4	1^4	1^5	1^2	1^4	0^6	1^0	1^1	1^4	0^6	1^0	1^1	1^2	1^2	1^4
B	1^4	1^5	2^0	2^1	1^4	1^5	1^1	1^2	1^4	1^5	1^2	1^4	1^2	1^4	1^6	1^7
C E G	1^4	1^5	2^0	2^1	1^2	1^4	0^6	1^0	1^2	1^4	1^2	1^4	1^4	1^5	1^4	1^5
D O Q R	1^4	1^5	2^0	2^1	1^4	1^5	0^6	1^0	1^2	1^4	1^2	1^4	1^4	1^5	1^4	1^5
F	0^5	0^6	1^4	1^5	0^6	1^0	0^5	0^6	0^6	1^0	0^6	1^0	0^6	1^0	1^1	1^2
H I M N	2^0	2^1	2^2	2^4	2^0	2^1	1^4	1^5	1^6	1^7	1^6	1^7	2^0	2^1	2^0	2^1
J U	2^0	2^1	2^0	2^1	1^6	1^7	1^4	1^5	1^6	1^7	1^6	1^7	1^6	1^7	2^0	2^1
K L	1^1	1^2	1^6	1^7	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4
P	1^2	1^4	1^4	1^5	1^2	1^4	0^5	0^6	1^1	1^2	1^1	1^2	1^2	1^4	1^2	1^4
S	1^2	1^4	1^6	1^7	1^2	1^4	0^6	1^0	1^2	1^4	1^2	1^4	1^2	1^4	1^2	1^4
T	1^1	1^2	1^6	1^7	0^6	1^0	0^6	1^0	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4
V	0^6	1^0	1^4	1^5	1^1	1^2	0^6	1^0	1^2	1^4	1^2	1^4	1^2	1^4	1^2	1^4
Y	0^5	0^6	1^4	1^5	0^6	1^0	0^5	0^6	0^5	0^7	0^5	0^6	0^6	1^0	1^1	1^2
Z	1^6	1^7	2^2	2^4	1^6	1^7	1^2	1^4	1^6	1^7	1^6	1^7	1^6	1^7	2^0	2^1

Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

FIRST LETTER	SECOND LETTER: a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
a d h g i j l m n q u	1^6	1^7	2^2	2^4	1^6	1^7	1^2	1^4	1^4	1^5	1^4	1^5	1^6	1^7	1^6	1^7
b f k o p s	1^2	1^4	1^6	1^7	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^2	1^4	1^2	1^4
c e	1^2	1^4	1^6	1^7	1^2	1^4	0^6	1^0	1^2	1^4	1^2	1^4	1^2	1^4	1^2	1^4
r	0^6	1^0	1^2	1^4	0^6	1^0	0^3	0^3	0^5	0^6	0^5	0^6	0^6	1^0	0^6	1^0
t z	1^2	1^4	1^6	1^7	1^2	1^4	0^6	1^0	1^1	1^2	1^1	1^2	1^2	1^4	1^2	1^4
v y	1^1	1^2	1^4	1^5	1^1	1^2	0^5	0^6	0^6	1^0	0^6	1^0	1^1	1^2	1^1	1^2
w	1^1	1^2	1^4	1^5	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4
x	1^2	1^4	1^6	1^7	1^1	1^2	0^5	0^6	1^1	1^2	1^1	1^2	1^1	1^2	1^2	1^4

Number To Number
Spacing Chart 8 Inch Series "C & D"

FIRST NUMBER	SECOND NUMBER: 0		1		2		3		4		5		6		7		8		9	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1^6	1^7	1^6	1^7	1^4	1^5	1^2	1^4	1^4	1^5	1^4	1^5	1^6	1^7	1^2	1^4	1^6	1^7	1^6	1^7
1	2^0	2^1	2^0	2^1	2^0	2^1	1^6	1^7	1^4	1^5	2^0	2^1	2^0	2^1	1^4	1^5	2^0	2^1	2^0	2^1
2 3 4	1^4	1^5	1^4	1^5	1^4	1^5	1^2	1^4	1^2	1^4	1^4	1^5	1^4	1^5	1^1	1^2	1^6	1^7	1^4	1^5
5	1^4	1^5	1^4	1^5	1^4	1^5	1^1	1^2	1^1	1^2	1^4	1^5	1^4	1^5	1^1	1^2	1^4	1^5	1^4	1^5
6	1^6	1^7	1^4	1^5	1^4	1^5	1^2	1^5	1^2	1^4	1^4	1^5	1^4	1^5	1^1	1^2	1^4	1^5	1^4	1^5
7	1^2	1^4	1^2	1^4	1^4	1^5	1^2	1^5	0^5	0^6	1^2	1^4	1^4	1^5	1^1	1^2	1^4	1^5	1^2	1^4
8	1^6	1^7	1^6	1^7	1^4	1^5	1^2	1^5	1^2	1^4	1^4	1^5	1^6	1^7	1^2	1^4	1^6	1^7	1^4	1^5

UPPER AND LOWER CASE LETTER WIDTHS

LETTERS	6 INCH UPPER CASE LETTERS SERIES C	6 INCH UPPER CASE LETTERS SERIES D	8 INCH UPPER CASE LETTERS SERIES C	8 INCH UPPER CASE LETTERS SERIES D	LETTERS	6 INCH LOWER CASE LETTERS SERIES C	6 INCH LOWER CASE LETTERS SERIES D
A	3^6	5^0	5^0	6^5	a	3^5	4^2
B	3^2	4^0	4^3	5^3	b	3^5	4^2
C	3^2	4^0	4^3	5^3	c	3^5	4^1
D	3^2	4^0	4^3	5^3	d	3^5	4^2
E	3^0	3^5	4^0	4^7	e	3^5	4^2
F	3^0	3^5	4^0	4^7	f	2^3	2^6
G	3^2	4^0	4^3	5^3	g	3^5	4^2
H	3^2	4^0	4^3	5^3	h	3^5	4^2
I	0^7	0^7	1^1	1^2	i	1^1	1^1
J	3^0	3^6	4^0	5^0	j	2^0	2^2
K	3^2	4^1	4^3	5^4	k	3^5	4^2
L	3^0	3^5	4^0	4^7	l	1^1	1^1
M	3^7	4^5	5^1	6^1	m	6^0	7^0
N	3^2	4^0	4^3	5^3	n	3^5	4^2
O	3^4	4^2	4^5	5^5	o	3^6	4^3
P	3^2	4^0	4^3	5^3	p	3^5	4^2
Q	3^4	4^2	4^5	5^5	q	3^5	4^2
R	3^2	4^0	4^3	5^3	r	2^6	3^2
S	3^2	4^0	4^3	5^3	s	3^6	4^2
T	3^0	3^5	4^0	4^7	t	2^7	3^2
U	3^2	4^0	4^3	5^3	u	3^5	4^2
V	3^5	4^4	4^7	6^0	v	4^2	4^7
W	4^4	5^2	6^0	7^0	w	5^5	6^4
X	3^4	4^0	4^5	5^3	x	4^4	5^1
Y	3^6	5^0	5^0	6^5	y	4^6	5^3
Z	3^2	4^0	4^3	5^3	z	3^6	4^3

NUMBER	6 INCH SERIES C	6 INCH SERIES D	8 INCH SERIES C	8 INCH SERIES D
1	1^2	1^4	1^5	2^0
2	3^2	4^0	4^3	5^3
3	3^2	4^0	4^3	5^3
4	3^5	4^3	4^7	5^7
5	3^2	4^0	4^3	5^3
6	3^2	4^0	4^3	5^3
7	3^2	4^0	4^3	5^3
8	3^2	4^0	4^3	5^3
9	3^2	4^0	4^3	5^3
0	3^4	4^2	4^5	5^5

REVISIONS

NAME	DATE
O.A.Z./D.A.S.	11/90
	6-91

Illinois Department of Transportation
DISTRICT 1
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: VERT. HORIZ. NONE — DRAWN BY: TJK
DATE: 2-26-79 — CHECKED BY: REF

EXHIBIT 6
SHEET 5 OF 8

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
573	27.TS-2	KANE	59	29
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCIDENTAL TO THE COST OF THE CABLE.

2. LOOP TURNS AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

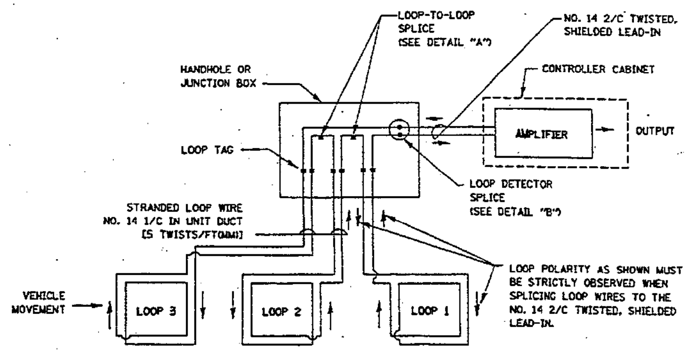
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. IDENTIFICATION SHALL INCLUDE LOOP LOCATION POLARITY (CLOCKWISE/COUNTERCLOCKWISE) AND WIRE DIRECTION (IN OR OUT).

4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS.

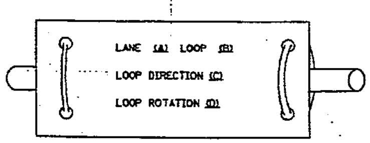
7. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON AS-BUILT PLANS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

LOOP LEAD-IN CABLE TAG

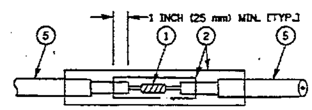


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

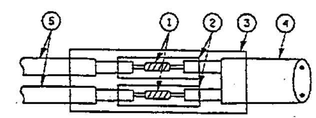
B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.

(2) WCSMW 30/100 HEAT SHRINK TUBE. MINIMUM LENGTH 3" (75 mm). UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE. MINIMUM LENGHT 6" (150 mm). UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

NOTE:

THE COMMONWEALTH EDISON MARKETING REPRESENTATIVE FOR THIS PROJECT IS:
NAME: MIKE VANDERVEEN
TELEPHONE: (630) 844-8209

REVISIONS	
NAME	DATE
CADD	5/30/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. HORIZ. NONE
DATE 11-16-94

DRAWN BY: DGN
DESIGNED BY: DAZ
CHECKED BY: DAZ
SHEET 1 OF 3

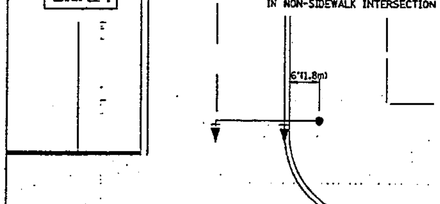
EXHIBIT 6
SHEET 6 OF 8

EXHIBIT 6
SHEET 6 OF 8

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
573	27TS-2	KANE	59	30
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

EXAMPLE 1

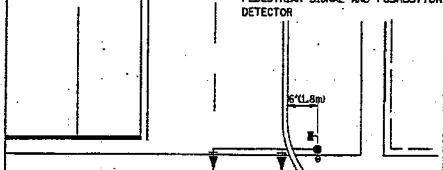
MAST ARM MOUNTED SIGNAL IN NON-SIDEWALK INTERSECTION



SEE EXAMPLE 5 IF A SIGNAL HEAD IS TO BE MOUNTED ON THE MAST ARM POLE

EXAMPLE 2

MAST ARM MOUNTED SIGNAL IN SIDEWALK AREA. INTERSECTION WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR

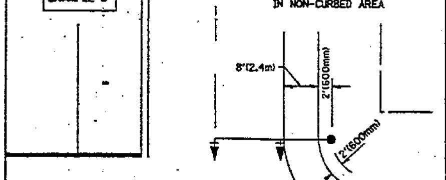


PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8' (2.4m) NOR MORE THAN 10' (3m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.

NOTE: PUSHBUTTON DETECTOR MUST BE LOCATED SO THAT PEOPLE WITH DISABILITIES ARE ABLE TO ACCESS IT FROM THE SIDEWALK.

EXAMPLE 3

MAST ARM MOUNTED SIGNAL IN NON-CURBED AREA

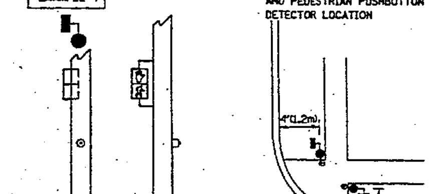


SEE EXAMPLE 2 WHEN PEDESTRIAN SIGNALS ARE TO BE INSTALLED

NOTE: MAST ARM POLES SHALL BE LOCATED AT A MINIMUM OF 10' (3m) BEHIND THE EDGE OF PAVEMENT OR 2' (600mm) BEHIND THE EDGE OF SHOULDER, WHICHEVER DISTANCE IS GREATER.

EXAMPLE 4

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

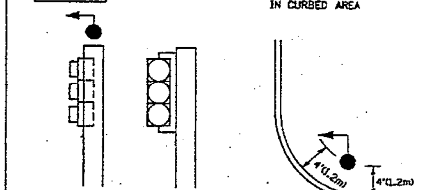


PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8' (2.4m) NOR MORE THAN 10' (3m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.

SEE EXAMPLE 2 NOTE REGARDING PEDESTRIAN PUSHBUTTON DETECTOR LOCATION.

EXAMPLE 5

FAR LEFT SIGNAL, ONE-FACE IN CURBED AREA

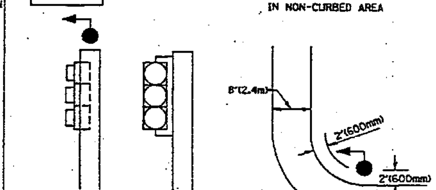


SEE EXAMPLE 2 WHEN PEDESTRIAN SIGNALS ARE TO BE INSTALLED

NOTE: THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10' (3m) BUT NOT MORE THAN 15' (4.5m) ABOVE THE SIDEWALK OR, IF NONE, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY.

EXAMPLE 6

FAR LEFT SIGNAL, ONE-FACE IN NON-CURBED AREA

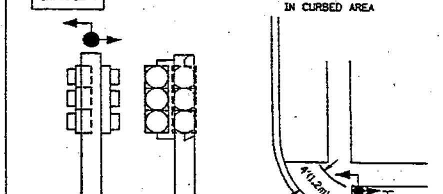


SEE EXAMPLE 2 WHEN PEDESTRIAN SIGNALS ARE TO BE INSTALLED

NOTE: THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10' (3m) BUT NOT MORE THAN 15' (4.5m) ABOVE THE SIDEWALK OR, IF NONE, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY.

EXAMPLE 7

2-FACE SIGNAL HEAD IN CURBED AREA

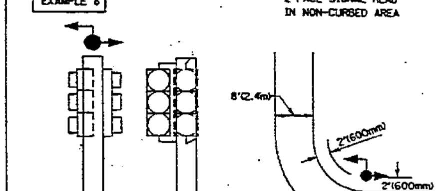


SEE EXAMPLE 2 WHEN PEDESTRIAN SIGNALS ARE TO BE INSTALLED

NOTE: THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10' (3m) BUT NOT MORE THAN 15' (4.5m) ABOVE THE SIDEWALK OR, IF NONE, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY.

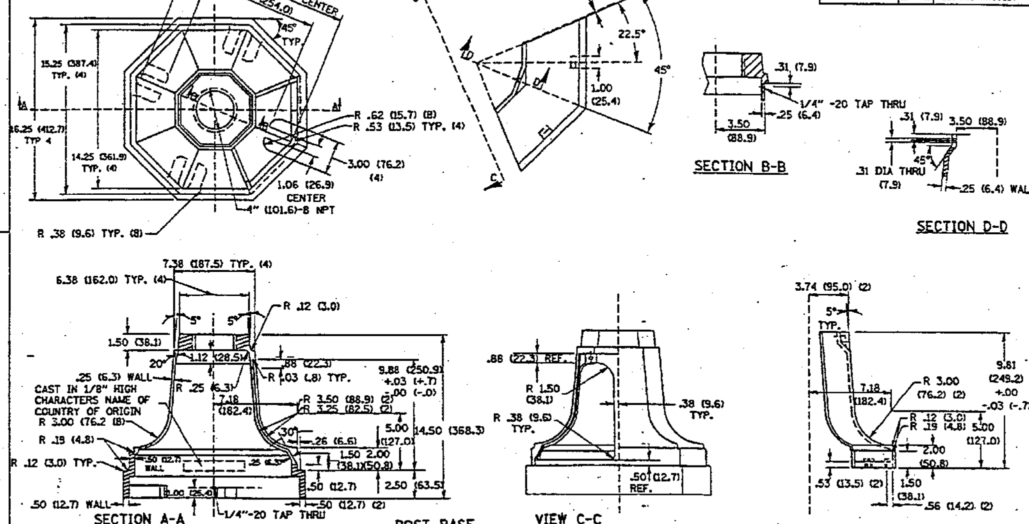
EXAMPLE 8

2-FACE SIGNAL HEAD IN NON-CURBED AREA



SEE EXAMPLE 2 WHEN PEDESTRIAN SIGNALS ARE TO BE INSTALLED

NOTE: THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10' (3m) BUT NOT MORE THAN 15' (4.5m) ABOVE THE SIDEWALK OR, IF NONE, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY.

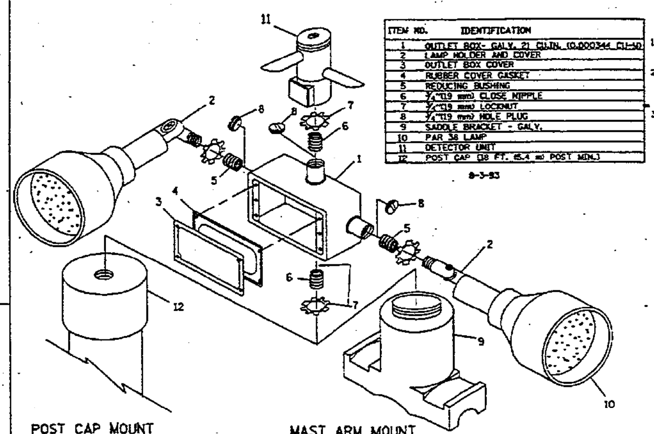


ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP (38 FT. (5.4 m) POST MIN.)

8-3-93

NOTES:

1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ALL DIMENSIONS ARE IN FEET (MILLIMETERS) UNLESS OTHERWISE NOTED.

REVISIONS	
NAME	DATE
EXAMPLE 7 & 8	2/8/97
CADD	5/30/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. HORIZ. NONE
DATE 03-05-96

DRAWN BY: DGN
DESIGNED BY: DAZ
CHECKED BY: DAZ
SHEET 2 OF 3

TSC5

Thu Jun 1 09:08:40 2000
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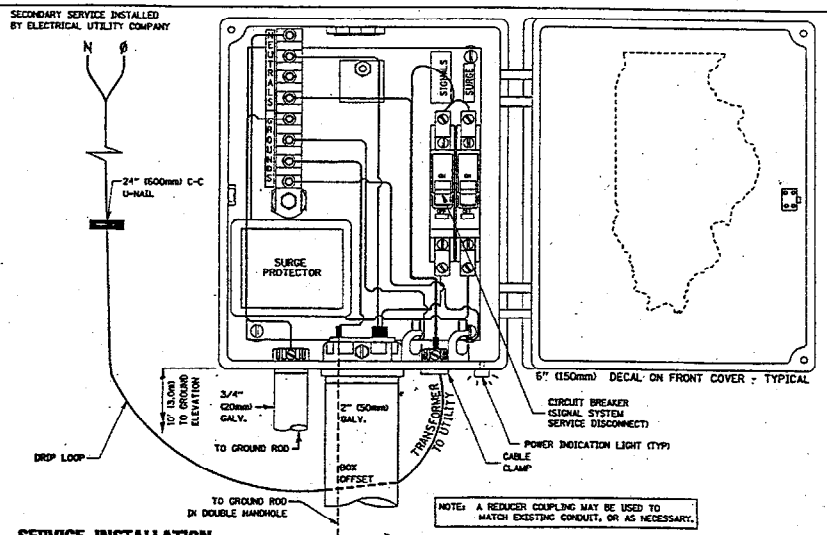
EXHIBIT 6
SHEET 7 OF 8

EXHIBIT 6

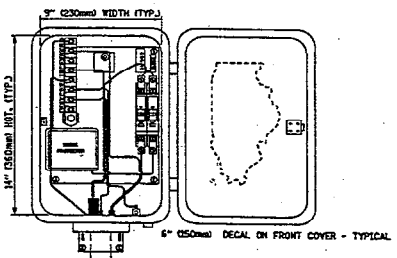
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
573	29TS-2	KANE	59	31
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



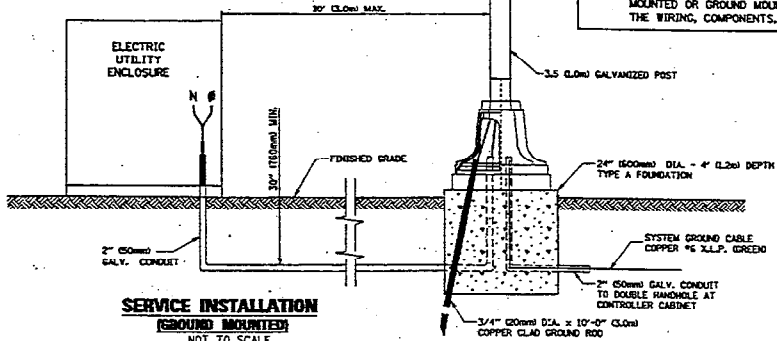
SERVICE INSTALLATION
(POLE MOUNTED)
NOT TO SCALE

NOTE: A REDUCER COUPLING MAY BE USED TO MATCH EXISTING CONDUIT, OR AS NECESSARY.

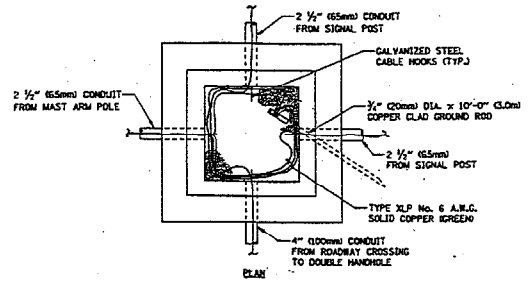
- NEMA-CAST ALUMINUM ENCLOSURE-UL APPROVED AS MANUFACTURED BY PELCO PRODUCTS OR EQUAL.
- INSIDE DIMENSIONS 5" (130mm) X 9" (230mm) X 14" (360mm)
- LOCKING DOOR, WITH WATER TIGHT GASKET.
- BRACKET MOUNTING FOR WOOD POLE/1-1/2"ø TO 2"ø COUPLING AND MOUNTING PLATE FOR POST MOUNTED
- 60 AMP (MIN.) SIGNAL, CIRCUIT BREAKER 120V (MIN.)
- SURGE PROTECTOR UL 1449 RATED FOR AMPERAGE REQUIREMENTS-400V (MAX.) PASSAGE.
- 3/4"ø GALVANIZED STEEL GROUNDING CONDUIT, INCIDENTAL TO SERVICE INSTALLATION.

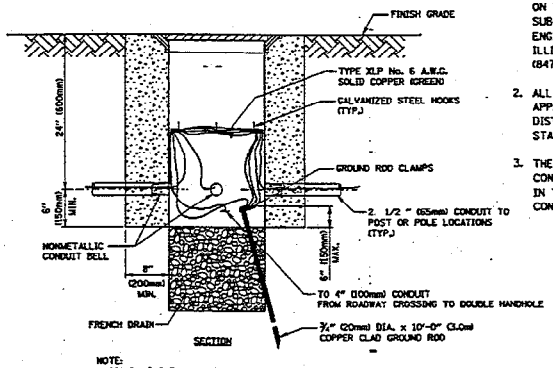


NOTE: SERVICE INSTALLATION CABINET IS THE SAME FOR A POLE MOUNTED OR GROUND MOUNTED INSTALLATION INCLUDING THE WIRING, COMPONENTS, ETC.



SERVICE INSTALLATION
(GROUND MOUNTED)
NOT TO SCALE





NOTE:
REFER TO THE TRAFFIC SIGNAL INSTALLATION PLANS FOR CONDUIT PATHS & CABLE ROUTING.

GROUNDING - HANDHOLE
NOT TO SCALE

NOTES:

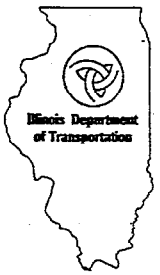
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, No. 6 A.W.G., SOLID COPPER TO BE INSTALLED IN GALVANIZED STEEL CONDUIT RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE CLAMPED (SEE DETAIL). GROUND RODS SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT THOSE HANDHOLE LOCATIONS. ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. ALL GROUNDING COMPONENTS SHALL BE AS SPECIFIED, OR AS APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AND SHALL MEET ALL REGULATORY CODES AND STANDARDS.
3. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.

3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP

NOTES:
- ALL CLAMPS SHALL BE BRONZE
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' 14.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES

GROUNDING CLAMP DETAIL
NOT TO SCALE



6" (150mm) DECAL ON FRONT COVER
NOT TO SCALE

REVISIONS	
NAME	DATE
CADD	5/30/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL SERVICE INSTALLATION AND GROUNDING SYSTEM DESIGN DETAILS

SCALE: VERT. NONE HORIZ.
DATE 07-22-99
DRAWN BY: DGH
DESIGNED BY: JNE
CHECKED BY: DAZ
SHEET 3 OF 3

TSCC

Thu Jun 1 09:06:57 2000
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EXHIBIT 6
SHEET 8 OF 8

EXHIBIT 6

STATE OF ILLINOIS
ILLINOIS COMMERCE COMMISSION

State of Illinois Department of Transportation, Petitioner, v. Burlington Northern Sante Fe Co. (BNSF) and the Village of Sugar Grove Respondents. Petition (1) to install a pre-signal on the northbound approach of Dugan Road south of the at-grade crossing of BNSF's single main line track, (2) to interconnect newly installed traffic signals at the intersection of Dugan Road and U. S. Route 30 with the railroad warning devices at the Dugan Road at-grade crossing of the BNSF single main line track and (3) to establish the amount of minimum preemption time provided by BNSF to the Department for the traffic signal preemption sequence at said intersection, located in the Village of Sugar Grove, Illinois.	)	Docket No. T00-0083

NOTICE OF FILING

TO: Mr. Michael L. Sazdanoff, (BNSF)
Ms. Cynthia Welsch, Village Clerk

PLEASE TAKE NOTICE that I have this 16th day of March 2001, forwarded to Mr. Kevin Sharpe, Director of Processing, Transportation Division, of the Illinois Commerce Commission, Springfield, Illinois, for filing in the above matter, a Petition, a copy of which is attached hereto and hereby served upon you.

Stacey C. Hallo

Stacey C. Hallo
Special Assistant Attorney General
2300 South Dirksen Parkway
Room 311
Springfield, Illinois 62764
(217) 782-3215

Counsel for the Illinois
Department of Transportation

PROOF OF SERVICE

The undersigned hereby certifies that a copy of the foregoing instrument was served upon the addressees listed below by mailing a true and correct copy via first class mail, postage pre-paid and depositing the same in the United States Mail, Springfield, Illinois, this 16th day of March 2001:

Stacey C. Hallo

Mr. Michael L. Sazdanoff
Burlington Northern Sante Fe
118 South Clinton Street
Suite 700
Chicago, Illinois 60661

Ms. Cynthia Welsch
Village Clerk
10 Municipal
P.O. Box 49
Sugar Grove, IL 60554